

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE to respond to a collection of information unless it contains a unfet CAID

Complete if Known

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

 Application Number
 10/040,902

 Filing Date
 December 28, 2001

 First Named Inventor
 Eric Klinker

 Art Unit
 2662

 Examiner Name
 Kizou, Hassan

(Use as many sheets as necessary)

 Sheet
 1
 of
 1
 Attarney Docket Number
 52224/295051

|                    |      |  | U.S. PATENT I    | DOCUMENTS  |  |
|--------------------|------|--|------------------|--|--|
| Examiner Cite No.1 | Cile | Document Number                            | Publication Date | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevan   |
|                    | No.1 | Number - Kind Code <sup>2</sup> (if known) | MM-DD-YYYY       | Gleo bodinen                                       | Passages or Relevant<br>Figures Appear |
| MA                 | 1    | 6,801,502                                  | 10-05-2004       | Rexford, et al.                                    |  |
| nim                | 2    | 6,785,237                                  | 08-31-2004       | Sufleta, Zbigniew                                  |  |
| MM                 | 3    | 6,690,649                                  | 02-10-2004       | Shimada, Naohiro                                   |  |
| mm                 | 4    | 6,678,248                                  | 01-13-2004       | Haddock, et al.                                    |  |
| 10 M               | 5    | 6,574,495                                  | 06-03-2003       | Roberts, Lawrence G.                               |  |
| mm                 | 6    | 6,466,984                                  | 10-15-2002       | Naveh, et al.                                      |  |
| mn                 | 7    | 6,097,699                                  | 08-01-2000       | Chen, et al.                                       |  |
| mm                 | 8    | US2004/0196787                             | 10-07-2004       | Wang, et al.                                       |  |
| 34                 | 9    | US2003/0118029                             | 06-26-2003       | Maher, et al.                                      |  |
| 3                  | 10   | US2003/0016627                             | 01-23-2003       | MeLampy, et al.                                    |  |
| 44                 | 11   | US2003/0012145                             | 01-162003        | Bragg, Nigel                                       |  |
| MM                 | 12   | US2003/0002443                             | 01-02-2003       | Basso, et al.                                      |  |
| MM                 | 13   | US2002/0184393                             | 12-05-2002       | Leddy, et al.                                      |  |
| MW                 | 14   | US2002/0163884                             | 11-072002        | Peles, et al.                                      |  |
| MM                 | 15   | US2002/0141378                             | 10-03-2002       | Bays, et al.                                       |  |
| NW                 | 16   | US2002/0105909                             | 08-02-2002       | Flanagan, et al.                                   |  |
| MM                 | 17   | US2002/0057699                             | 05-16-2002       | Roberts, Lawrence G.                               |  |
| MM                 | 18   | US2001/0021176                             | 09-13-2001       | Mimura, et al.                                     |  |
|                    |      |  |                  |  |  |
|                    |      |  |                  | ·  |  |

|                              | FOREIGN PATENT DOCUMENTS |  |                    |                                |  |    |  |  |
|------------------------------|--------------------------|--|--------------------|--------------------------------|--|----|--|--|
| Examiner Initials* Cite No.1 | Cito                     | Foreign Patent Document  | Publication        | Name of Patentee or            | Pages, Columns, Lines,                                   |    |  |  |
|                              |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (# known) | Date<br>MM-DD-YYYY | Applicant of Cited<br>Document | Where Relevant<br>Passages or Relevant<br>Figures Appear | T⁰ |  |  |
|                              | <b> </b>                 |  |                    |                                |  |    |  |  |
|                              | <u> </u>                 |  |                    |                                |  |    |  |  |
|                              |                          |  |                    | <del></del>                    |  |    |  |  |
|                              |                          |  |                    |                                |  |    |  |  |
|                              |                          |  |                    |                                |  |    |  |  |
|                              | <b>}</b>                 | <del></del>  |                    |                                |  |    |  |  |
|                              |                          | 1  | 1                  |                                | 1  |    |  |  |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 10/31/2002 OMB 0651-0031

SEP 1 7 2004 U.S. Patent and Tradernark Office: U.S. DEPARTMENT OF COMMERCE of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449/A/P

Sheet

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary

| Cor                    | nplete if Known   |  |
|------------------------|-------------------|--|
| Application Number     | 10/040,902        |  |
| Filing Date            | December 28, 2001 |  |
| First Named Inventor   | Eric Klinker      |  |
| Group Art Unit         | 2661              |  |
| Examiner Name          | Unknown           |  |
| Attorney Docket Number | 52224/295051      |  |

|                      |              |                  |  | <b>U.S. PATENT DOCUMENT</b>                     |  |   |
|----------------------|--------------|------------------|--|---|--|---|
| Examiner<br>Initials | Cite<br>No.¹ | U.S. Patent Docu | ment<br>Kind Code <sup>2</sup><br>(if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
| MM                   | 1            | 5,933,425        |  | Iwata   | 08-03-1999   |   |
| Mm                   | 2            | 5,953,312        |  | Crawley   | 09-14-1999   | ·   |
| MN                   | 3            | 6,047,331        |  | Medard et al.                                   | 04-04-2000   |   |
| MM                   | 4            | 6,400,681        | B1   | Bertin et al.                                   | 06-04-2002   |   |
| MM                   | 5            | US 2002/0010765  | A1   | Border  | 01-24-2002   |   |
| MM                   | 6            | US 2002/0145981  | Λl   | Klinker, et al.                                 | 10-10-2002   |   |
| ·                    |              |                  |  |   | REC  | EIVED   |
|                      |              |                  |  |   |  | <b>2 2</b> 2004   |
|                      |              |                  |  |   | Technolog  | y Center 2600   |
|                      |              |                  |  |   |  |   |
|                      |              |                  |  |   |  |   |
|                      |              |                  |  |   |  |   |
|                      |              |                  |  | W. 10   |  |   |

|                      | FOREIGN PATENT DOCUMENTS |                     |  |     |  |  |   |                |  |  |
|----------------------|--------------------------|---------------------|--|-----|--|--|---|----------------|--|--|
| Examiner<br>Initials | Cite<br>No.¹             | Office <sup>3</sup> | Foreign Patent Docum Office <sup>3</sup> Number <sup>4</sup> |     | Name of Patentee or<br>Applicant of Cited Document | Date of Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where<br>Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |  |  |
|                      |                          |                     |  |     |  |  | -   |                |  |  |
|                      |                          | <u> </u>            |  |     |  |  | •   | 丄              |  |  |
|                      |                          | <u> </u>            |  |     |  |  |   | <u> </u>       |  |  |
|                      |                          |                     |  |     |  |  |   | <u> </u>       |  |  |
|                      |                          |                     |  |     |  |  |   | 丄              |  |  |
|                      |                          |                     | •  |     | ·  |  |   | ↓_             |  |  |
|                      |                          |                     |  |     |  |  |   | <u> </u>       |  |  |
|                      |                          |                     |  |     |  | •  |   | _              |  |  |
| · ·                  |                          | 1                   |  |     |  |  |   | <u> </u>       |  |  |
|                      |                          | 1 !                 |  | 1 1 | •  | Ì  |   | 1              |  |  |

|                       |        |         |                    | <u> </u>  |
|-----------------------|--------|---------|--------------------|-----------|
| Examiner<br>Signature | Melvin | Marcelo | Date<br>Considered | 9-30-2005 |

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language translation is attached.

PTO/SB/08A (08-00)

Approved for use through 10/31/2002 OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number Under the Paperwork Reduction

Substitute for Form 1449/A/PTO

INFORMATION DIS

(use as many sheets as necessary

| Sheet | 1 | of | 1 |
|-------|---|----|---|
|       |   |    |   |

| Co                     | mplete if Known       |
|------------------------|-----------------------|
| Application Number     | 09/040,902 10-040 902 |
| Filing Date            | December 28, 2001     |
| First Named Inventor   | Klinker               |
| Group Art Unit         | 2661                  |
| Examiner Name          |                       |
| Attorney Docket Number | 52224/205051          |

|                       |                          |   |  | U.S. PATENT DOCUMENT  | S   |   |                |
|-----------------------|--------------------------|---|--|---|---|---|----------------|
| Examiner<br>Initials  | Cite<br>No.1             | U.S. Patent Docur                       | Ment Kind Code <sup>1</sup> (if known) | Name of Patentee or Applicant of Cited Document   | Date of Publication of<br>Cited Document<br>MM-DD-YYYY          | Pages, Columns, Lines, Whe<br>Relevant Passages or Relevant<br>Figures Appear | ere<br>ant     |
| MM                    |                          | 6,665,702 B1                            |  | Zisapel et al.  | 12/16/2003  |   |                |
|                       |                          |   |  |   |   |   |                |
|                       |                          |   |  |   |   |   |                |
|                       | _                        |   |  |   |   | RECEIVED  | 1              |
|                       |                          |   |  | <del></del>   |   | THE VEIVE   | <i>y</i>       |
|                       |                          |   |  |   |   | APR 2 0 2004  |                |
|                       |                          |   |  |   |   | ļ. ·  |                |
|                       |                          |   |  |   |   | Rechnology Center 26  | 00             |
|                       |                          |   | -                                      |   |   |   | _              |
|                       |                          |   |  |   |   |   |                |
|                       |                          |   |  |   |   |   |                |
|                       |                          |   | FO!                                    | DEICNI DATENT DOCUME  | NITO  |   |                |
|                       |                          | Foreign Patent Doo                      |  | REIGN PATENT DOCUME   | Date of Publication of  | Pages, Columns, Lines, Where  | T              |
| Examiner<br>Initials  | Cite<br>No. <sup>1</sup> | Office <sup>3</sup> Number <sup>4</sup> | Kind Code <sup>5</sup> (if known)      | Name of Patentee or<br>Applicant of Cited Document  | Cited Document<br>MM-DD-YYYY                                    | Relevant Passages or<br>Relevant Figures Appear                               | T <sup>6</sup> |
|                       |                          |   |  |   |   | ·   | -              |
| •                     |                          |   |  |   |   |   |                |
| ***                   |                          | OTI                                     | HED INFORM                             | MATION - NON PATENT LITERATUR   | DE DOCUMENTS  |   |                |
| Examiner<br>Initials  | Cite<br>No.1             | Include                                 | e name of the                          | author (in CAPITAL LETTERS), title of the<br>journal, serial, symposium, catalog, etc.), of<br>publisher, city and/or country where | article (when appropriate), ti<br>late, page(s), volume-issue r | tle of the<br>number(s),  | T <sup>2</sup> |
|                       |                          |   |  |   |   |   |                |
|                       |                          |   |  |   |   |   |                |
|                       |                          |   |  |   | - · · · · · ·   |   |                |
| Examiner<br>Signature |                          | Melvin                                  | Mar                                    | ce lo   | Date<br>Considered  | 09-30-2005  |                |

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

PTO/SB/08A (08-00)

Approved for use through 10/31/2002 OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Index the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

1449/A/PTO NFORMATION DISCLOSURE

Sheet

STATEMENT BY APPLICANT

(use as many sheets as necessary

of

| Complete if Known      |                   |  |  |  |
|------------------------|-------------------|--|--|--|
| Application Number     | 10/040,902        |  |  |  |
| Filing Date            | December 28, 2001 |  |  |  |
| First Named Inventor   | Klinker           |  |  |  |
| Group Art Unit         | 2661              |  |  |  |
| Examiner Name          |                   |  |  |  |
| Attorney Docket Number | 52224/295051      |  |  |  |

|                       |                          |   |                | U.S. PATENT DOCUMENT   | S  |   |             |
|-----------------------|--------------------------|---|----------------|--|--|---|-------------|
| Examiner<br>Initials  | Cite<br>No.1             | U.S. Patent Doo   |                | Name of Patentee or Applicant of Cited Document  | Date of Publication of<br>Cited Document<br>MM-DD-YYYY           | Pages, Columns, Lines, Who<br>Relevant Passages or Relev<br>Figures Appear      | ere<br>/ant |
|                       |                          | 6,665,702 B1  |                | Zisapel et al.   | 12/16/2003   |   |             |
|                       |                          |   |                |  |  |   |             |
| - 13-7-               |                          |   |                |  |  | RECEIVED  |             |
|                       |                          |   |                |  |  | APR 2 6 2004  |             |
| •                     |                          |   |                |  | Te   | chnology Center 260   | 0           |
|                       |                          |   |                |  |  |   |             |
| •                     |                          |   |                |  |  |   |             |
|                       |                          |   |                | REIGN PATENT DOCUME  | NTS  |   |             |
| Examiner<br>Initials  | Cite<br>No. <sup>1</sup> | Foreign Patent Document Kind Code <sup>3</sup> Office <sup>3</sup> Number <sup>4</sup> (if known) |                |  | Oate of Publication of<br>Cited Document<br>MM-DD-YYYY           | Pages, Columns, Lines, Where<br>Relevant Passages or<br>Relevant Figures Appear | τ•          |
|                       |                          |   |                |  |  |   | _           |
|                       |                          |   | TUED INCOR     | MATION - NON PATENT LITERATUR  | DE DOCUMENTS   |   | <u> </u>    |
| Examiner<br>Initials  | Cite<br>No.1             | Inclu   | de name of the | author (in CAPITAL LETTERS), title of the journal, serial, symposium, catalog, etc.), depublisher, city and/or country where | article (when appropriate), til<br>late, page(s), volume-issue r | ile of the<br>number(s),  | T²          |
|                       |                          |   |                |  |  |   |             |
|                       |                          |   | <del>-</del>   |  |  |   |             |
|                       |                          |   |                |  |  |   |             |
|                       |                          | . ,   | 1              |  |  |   |             |
| Examiner<br>Signature |                          | Melvin  | Mara           | e. (0  | Date<br>Considered   | 9-30-2009   |             |

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language translation is attached.

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE B Pagerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

US-US-

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/040,902
Filling Date December 28, 2001
First Named Inventor Klinker
Art Unit 2661
Examiner Name Unknown
Attorney Docket Number PA2330US

(Use as many sheets as necessary)
Sheet 1 of

**U. S. PATENT DOCUMENTS** Examiner Cite Publication Date MM-DD-YYYY **Document Number** Name of Patentee or Pages, Columns, Lines, Where Initials\* **Applicant of Cited Document** Relevant Passages or Relevant Number-Kind Code<sup>2 (F known)</sup> Figures Appear 6,130,890 US-10-10-2000 Leinwand et al. min ouch US-6,249,801 B1 06-19-2001 Zisapel et al. non 6,275,470 B1 08-14-2001 Ricciulli US-6,292,464 B1 NW 09-18-2001 Elahmadi et al. USnon 6,374,300 B2 04-16-2002 Masters US-Technology Center 2600 6.393,486 B1 Mas 05-21-2002 Pelavin et al. US-6,404,769 B1 06-11-2002 num Kapoor US-6,405,219 B2 ma 06-11-2002 Saether et al. US: US-2001/0037387 A1 11-01-2001 non Gilde et al. <sup>US-</sup> 2002/0075813 A1 mm 06-20-2002 Baldanado et al. <sup>US-</sup>2002/0078223 A1 nm 06-20-2002 Baldonado et al. . US-2002/0040400 A1 04-04-2002 MM Masters US-2002/0103846 A1 08-01-2002 MN Zisapel et al. US-

2

|   |                          | FOREIGN F  | PATENT DOCU                            | JMENTS   |   |          |
|---|--------------------------|--|--|--|---|----------|
| Examiner<br>Initials*                   | Cite<br>No. <sup>1</sup> | Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY         | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | ۲⁴       |
| **************                          | ··········               | ***************************************  |  |  | ***************************************   |          |
| *************************************** |                          | ***************************************  |  |  | 40*************************************   |          |
|   | ļ                        | ***************************************  |  | ***************************************            | ***************************************   | <u> </u> |
|   |                          |  | ······································ | •••••••••••••••••••••••••••••••••••••••            | ***************************************   | ┝        |

| Examiner  |                | Date        |           |
|-----------|----------------|-------------|-----------|
| Signature | Melun Marcela  | Considered  | 9-30-2005 |
|           | mellin marcelo | 00/10/00/00 | 1-30-2005 |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08a (05-03) Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Department of the control of the

TRANSPOSITUTE for form 1449A/PTO

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/040,902

Filing Date December 28, 2001

First Named Inventor Klinker

Art Unit 2661

Examiner Name Unknown

Attorney Docket Number PA2330US

(Use as many sheets as necessary)
Sheet 2 of

**U. S. PATENT DOCUMENTS** Examiner Cite Publication Date MM-DD-YYYY **Document Number** Name of Patentee or Pages, Columns, Lines, Where initials\* Applicant of Cited Document Relevant Passages or Relevant Number-Kind Code<sup>2 (7 known)</sup> S- 5,724,513 Figures Appear US-03-03-1998 Ben-Nun et al. wm USmm 04-27-1999 5,898,668 Shaffer RECEIVED US-6,047,326 04-04-2000 m m Kilkki US-6,055,571 04-25-2000 mm Fulp et al. NOV 1 8 2003 USnun 6,154,778 11-28-2000 Koistinen et al. US-5,870,561 02-09-1999 Technology Center 2600 Nun Jarvis et al. US-6,064,677 05-16-2000 Kappler et al. ann US-6,181,679 B1 01-30-2001 mm Ashton et al. US-6.252,848 B1 06-26-2001 Skirmont MM US-MM 6,226,751 B1 05-01-2001 Arrow et al. MM US-6,185,635 B1 02-06-2001 O'Loughlin et al. MW US-07-03-2001 6,256,314 B1 Rodrig et al. US-07-17-2001 MM 6,262,976 B1 McNamara US-<sup>US-</sup>2003/0088529 A1 05-08-2003 Klinker ww US-2003/0088671 A1 Man 05-08-2003 Klinker US-US-

2

|   | ,            | FOREIGN  | PATENT DOCU      | JMENTS   |   |    |
|---|--------------|--|------------------|--|---|----|
| Examiner<br>Initials*                   | Cite<br>No.1 | Foreign Patent Document  | Publication Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | ١. |
|   |              | Country Code <sup>3</sup> Number <sup>4</sup> 'Kind Code <sup>5</sup> (if known) | MM-DD-YYYY       |  |   | T° |
|   |              |  |                  |  |   |    |
|   |              |  |                  | ,  |   |    |
| *** <del>*****************</del>        |              | •  |                  | ·  |   |    |
| *************************************** |              | ***************************************  |                  | ***************************************            |   | 十  |
| ******************                      |              |  |                  | •••••••••••••••••••••••••••••••••••••••            | ***************************************   | 十  |

| Examiner  |         |         |   | Date       | •                                       |
|-----------|---------|---------|---|------------|---|
| Signature | Mali    |         |   |            | Or 2 3                                  |
| Signature | me luin | Warrela |   | Considered | 7.50.7.000                              |
|           |         |         | • |            | , |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

#### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

| Defects in the images include but are not limited to the items checked: |
|---|
| BLACK BORDERS   |
| ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES                                 |
| ☐ FADED TEXT OR DRAWING   |
| ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING                                  |
| ☐ SKEWED/SLANTED IMAGES   |
| ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS                                  |
| ☐ GRAY SCALE DOCUMENTS  |
| ☐ LINES OR MARKS ON ORIGINAL DOCUMENT                                   |
| ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY                 |
| П отнер.  |

#### IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.